

P19797.A21

Application No. 09/600,890

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Seiji SHIRAI et al.

Confirmation No. : 6628

Serial No : 09/600,890

Group Art Unit: 2827

Filed : August 16, 2000

Examiner: Tuan DINH

For : MULTILAYER PRINTED WIRING BOARD WITH FILLED VIAHOLE
STRUCTURE

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop AMENDMENT
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir :

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98,
Applicants hereby submit the following documents to supplement the materials submitted
in the Second Supplemental Information Disclosure Statement:

- (1) Patent Abstracts of Japan, vol. 1997, No. 07, July 31, 1997, which is a family member of Japanese Laid-Open Publication No. 9-83138;
- (2) Patent Abstracts of Japan, vol. 1998, No. 06, April 30, 1998, which is a family member of Japanese Laid-Open Publication No. 10-46119;
- (3) Patent Abstracts of Japan, vol. 1996, No. 05, May 31, 1996, which is a family member of Japanese Laid-Open Publication No. 8-18239 ;
- (4) Database WPI Section Ch, Week 198022, Derwent Publications Ltd., London,

- GB; Class A85, AN 1980-39341c, Document XP002238554, which is a family member of JP-A-S49-093863;
- (5) Database WPI Section Ch, Week 198145, Derwent Publications Ltd., London, GB; Class A85, AN 1981-82484d, Document XP002238555, which is a family member of JP-A-S56-122194;
- (6) Patent Abstracts of Japan, vol. 018, No. 661 (E-1644), December 14, 1994, which is a family member of Japanese Laid-Open Publication No. 6-260766;
- (7) Patent Abstracts of Japan, vol. 1998, No. 04, March 31, 1998, which is a family member of Japanese Laid-Open Publication No. 9-312472;
- (8) U.S. Pat. No. 5,827,604, which is a family member of EP 0 743 812;
- (9) U.S. Pat. Nos. 5,662,987 and 5,956,843, which is a family member of EP 0 727 926;
- (10) U.S. Pat. No. 4,680,220, which is a family member of U.S. Pat. No. 4,747,897;
- (11) U.S. Pat. No. 5,103,293, which is a family member of EP 0 490 211;
- (12) U.S. Pat. No. 4,937,132, which is a family member of EP 0 321 977;

Applicants note that certain documents above have already been considered by the Examiner. However, for the Examiner's convenience, these documents are being submitted herewith for consideration with the other submitted documents.

Applicants respectfully request that the Examiner consider the above material and cite the same. Copies of the above-noted documents are attached hereto. The Examiner is requested to initial the appropriate spaces on the attached Form PTO-1449 and to return a copy of the completed Form to Applicants with the next official

communication in the present application.

Further to 37 C.F.R. §1.98, copies of the U.S. patents are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

Applicant notes that while this Third Supplemental Information Disclosure Statement is being filed after a Request for Continued Examination (RCE) but prior to a First Action on the merits from the U.S. Patent and Trademark Office. Accordingly, no fee is believed necessary and consideration of the enclosed documents is required under 37 C.F.R. 1.97(b)(3).


However, if an action on the merits has been mailed prior to the filing date of this Third Supplemental Information Disclosure Statement, Applicant hereby authorizes the charging of any required fees necessary for consideration of the documents cited herein to Deposit Account No. 19-0089.

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Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,
Seiji SHIRAI et al

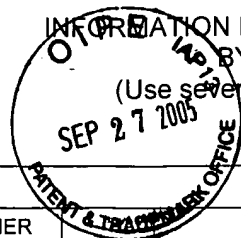


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FORM PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. P19797	Application No. 09/600,890
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant Seiji SHIRAI et al.	
		Filing Date August 16, 2000	Group 2827



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 8 2 7 6 0 4	10/27/98	UNO et al.			
	5 6 6 2 9 8 7	09/02/97	MIZUMOTO et al.			
	5 9 5 6 8 4 3	09/28/99	MIZUMOTO et al.			
	4 6 8 0 2 2 0	07/14/87	JOHNSON			
	4 7 4 7 8 9 7	05/31/88	JOHNSON			
	5 1 0 3 2 9 3	04/07/92	BONAFINO et al.			
	4 9 3 7 1 3 2	06/26/90	GAKU et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	9 - 8 3 1 3 8	03/28/97	JAPAN			
1	0 - 4 6 1 1 9	02/17/98	JAPAN			
	8 - 1 8 2 3 9	01/19/96	JAPAN			
4	9 - 9 3 8 6 3	09/06/74	JAPAN			
5 6	- 1 2 2 1 9 4	09/25/81	JAPAN			
6	- 2 6 0 7 6 6	09/16/94	JAPAN			
9	- 3 1 2 4 7 2	12/02/97	JAPAN			
	0 7 4 3 8 1 2	11/20/96	E.P.O.			
	0 7 2 7 9 2 6	08/21/96	E.P.O.			
	0 4 9 0 2 1 1	06/17/92	E.P.O.			
	0 3 2 1 9 7 7	06/28/89	E.P.O.			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	Patent Abstracts of Japan, Vo. 1997, No. 07, July 31, 1997.
2	Patent Abstracts of Japan, Vo. 1998, No. 06, April 30, 1998.
3	Patent Abstracts of Japan, Vo. 1996, No. 05, May 31, 1996.
4	Database WPI Section Ch, Week 198022, Derwent Publications Ltd., London, GB; Class A85, AN 1980-39341c, Document XP002238554.
5	Database WPI Section Ch, Week 198145, Derwent Publications Ltd., London, GB; Class A85, AN 1981-82484d, Document XP002238555.
6	Patent Abstracts of Japan, Vo. 018, No. 661, December 14, 1994.
7	Patent Abstracts of Japan, Vo. 1998, No. 04, March 31, 1998.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.